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PTO/SB/17 (01-03)

Approved for use through 04/30/2003. OMB 0651-0032  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

# FEE TRANSMITTAL for FY 2003

Effective 01/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

**TOTAL AMOUNT OF PAYMENT** (\$ 180.00)

## Complete if Known

|                      |                       |
|----------------------|-----------------------|
| Application Number   | 09/851,576            |
| Filing Date          | 05/10/2001            |
| First Named Inventor | Yao-Ching Su          |
| Examiner Name        | MACCHIAROLO, PETER J. |
| Art Unit             | 2875                  |
| Attorney Docket No.  | ADTP0033USA           |

## METHOD OF PAYMENT (check all that apply)

Check  Credit card  Money Order  Other  None

Deposit Account:

Deposit Account Number  
Deposit Account Name

50-0801

North America International Patent Office

The Commissioner is authorized to: (check all that apply)

- Charge fee(s) indicated below  Credit any overpayments  
 Charge any additional fee(s) during the pendency of this application  
 Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

## FEE CALCULATION

### 1. BASIC FILING FEE

| Large Entity Fee Code (\$) | Small Entity Fee Code (\$) | Fee Description        | Fee Paid |
|----------------------------|----------------------------|------------------------|----------|
| 1001 750                   | 2001 375                   | Utility filing fee     |          |
| 1002 330                   | 2002 165                   | Design filing fee      |          |
| 1003 520                   | 2003 260                   | Plant filing fee       |          |
| 1004 750                   | 2004 375                   | Reissue filing fee     |          |
| 1005 160                   | 2005 80                    | Provisional filing fee |          |
| <b>SUBTOTAL (1)</b>        |                            | <b>(\$ 0.00)</b>       |          |

### 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

| Total Claims       | Extra Claims | Fee from below   | Fee Paid      |
|--------------------|--------------|--|---------------|
| Independent Claims | -20** =      | <input type="text"/> X <input type="text"/> = <input type="text"/> |               |
| Multiple Dependent | - 3** =      | <input type="text"/> X <input type="text"/> = <input type="text"/> |               |
|                    |              |  | <b>= 0.00</b> |

| Large Entity Fee Code (\$) | Small Entity Fee Code (\$) | Fee Description  |
|----------------------------|----------------------------|--|
| 1202 18                    | 2202 9                     | Claims in excess of 20                                     |
| 1201 84                    | 2201 42                    | Independent claims in excess of 3                          |
| 1203 280                   | 2203 140                   | Multiple dependent claim, if not paid                      |
| 1204 84                    | 2204 42                    | ** Reissue independent claims over original patent         |
| 1205 18                    | 2205 9                     | ** Reissue claims in excess of 20 and over original patent |
| <b>SUBTOTAL (2)</b>        |                            | <b>(\$ 0.00)</b>   |

\*\*or number previously paid, if greater; For Reissues, see above

## 3. ADDITIONAL FEES

Large Entity Small Entity

| Fee Code (\$)                     | Fee Code (\$) | Fee Description  | Fee Paid |
|-----------------------------------|---------------|--|----------|
| 1051 130                          | 2051 65       | Surcharge - late filing fee or oath  |          |
| 1052 50                           | 2052 25       | Surcharge - late provisional filing fee or cover sheet                     |          |
| 1053 130                          | 1053 130      | Non-English specification  |          |
| 1812 2,520                        | 1812 2,520    | For filing a request for ex parte reexamination                            |          |
| 1804 920*                         | 1804 920*     | Requesting publication of SIR prior to Examiner action                     |          |
| 1805 1,840*                       | 1805 1,840*   | Requesting publication of SIR after Examiner action                        |          |
| 1251 110                          | 2251 55       | Extension for reply within first month                                     |          |
| 1252 410                          | 2252 205      | Extension for reply within second month                                    |          |
| 1253 930                          | 2253 465      | Extension for reply within third month                                     |          |
| 1254 1,450                        | 2254 725      | Extension for reply within fourth month                                    |          |
| 1255 1,970                        | 2255 985      | Extension for reply within fifth month                                     |          |
| 1401 320                          | 2401 160      | Notice of Appeal   |          |
| 1402 320                          | 2402 160      | Filing a brief in support of an appeal                                     |          |
| 1403 280                          | 2403 140      | Request for oral hearing   |          |
| 1451 1,510                        | 1451 1,510    | Petition to institute a public use proceeding                              |          |
| 1452 110                          | 2452 55       | Petition to revive - unavoidable   |          |
| 1453 1,300                        | 2453 650      | Petition to revive - unintentional   |          |
| 1501 1,300                        | 2501 650      | Utility issue fee (or reissue)   |          |
| 1502 470                          | 2502 235      | Design issue fee   |          |
| 1503 630                          | 2503 315      | Plant issue fee  |          |
| 1460 130                          | 1460 130      | Petitions to the Commissioner  |          |
| 1807 50                           | 1807 50       | Processing fee under 37 CFR 1.17(q)  |          |
| 1806 180                          | 1806 180      | Submission of Information Disclosure Stmt                                  |          |
| 8021 40                           | 8021 40       | Recording each patent assignment per property (times number of properties) |          |
| 1809 750                          | 2809 375      | Filing a submission after final rejection (37 CFR 1.129(a))                |          |
| 1810 750                          | 2810 375      | For each additional invention to be examined (37 CFR 1.129(b))             |          |
| 1801 750                          | 2801 375      | Request for Continued Examination (RCE)                                    |          |
| 1802 900                          | 1802 900      | Request for expedited examination of a design application                  |          |
| Other fee (specify) _____         |               |  |          |
| *Reduced by Basic Filing Fee Paid |               |  |          |
| <b>SUBTOTAL (3)</b>               |               | <b>(\$ 180.00)</b>   |          |

(Complete if applicable)

|                   |                               |                                   |        |                        |
|-------------------|-------------------------------|-----------------------------------|--------|------------------------|
| Name (Print/Type) | Winston Hsu                   | Registration No. (Attorney/Agent) | 41,526 | Telephone 886289237350 |
| Signature         | <i>Winston Hsu</i> 07/18/2003 |                                   |        |                        |

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This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

5 Applicants: Yao-Ching Su, Yih-Jer Lin  
Examiner: MACCHIAROLO, PETER J.  
Filing Date: 05/10/2001 Art Unit: 2875  
App. No.: 09/851,576 Docket No.: ADTP0033USA

10

Title: ELECTRODE STRUCTURE OF A PLASMA DISPLAY PANEL

To: Commissioner for Patents  
P.O. BOX 1450  
15 Alexandria, VA 22313-1450

Subject:

1. Information disclosure statement under 37 CFR §1.56.  
20 2. Petition to request consideration of the information disclosure statement.

Dear Sir:

25 This is an Information Disclosure Statement in accordance with the duty to disclose information material to patentability under 37 CFR §1.56. The applicant wishes to make of record the document listed on the accompanying form PTO/SB/08. It is respectfully requested that the examiner initials the cited reference on the form and that it be made of record in the application and that a copy of the initialed

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form be sent to the applicant with the next communication from the examiner.

Since the IDS is filed after the issue of the final  
5 Office action, a petition to request consideration of  
the information disclosure statement is hereby  
requested according to 37 CFR §1.97(e)(1). The prior  
art patent contained in the information disclosure  
statement was cited in communications from the Chinese  
10 Intellectual Property Office on Sep. 12, 2003 for a  
counterpart foreign application. Since this IDS is  
being submitted within three months of the date in which  
this prior art patent was first cited, the applicant  
sincerely hopes that the examiner can consider the item  
15 contained in this IDS.

According to the requirement set forth in 37 CFR  
§1.98 and MPEP 609 (Rev.1, Feb. 2000), the applicant  
is submitting a copy of Chinese patent document CN  
20 publication No. 1269570A (published Oct. 11, 2000),  
Japanese patent documents JP publication No. 11-297214  
(published Oct. 29, 1999) and JP publication No.  
2000-123750A (published Apr. 28, 2000), US patent No.  
6,031,329 (filed Mar. 27, 1998), and a concise  
25 explanation of the relevance to this application  
hereinafter. For convenience, claim 1 of the present  
application is appended at the end of this response.

Fig. 4 of CN 1269570A appears to be the most relevant  
30 drawing, and shows a plasma display panel with a first  
auxiliary electrode 20 positioned in a first gap between  
a first sustaining electrode 14 and a second sustaining

electrode 13. Since the first auxiliary electrode 20 disclosed in CN 1269570A is not electrically connected to the first sustaining electrode 14, and does not comprise a second part located above the first 5 sustaining electrode 14, the claimed invention of the present application is significantly different from the teachings in CN 1269570A.

JP 11-297214 discloses a plasma display panel. As 10 shown in Fig. 2 of JP 11-297214, the plasma display panel comprises a discharge gap 21 positioned between two sustaining electrodes 2. The plasma display panel further comprises an auxiliary electrode 3, and a portion of the auxiliary electrode 3 is located above 15 the sustaining electrode 2. Since JP 11-297214 never teaches that the auxiliary electrode 3 can be formed in the discharge gap 21, it is believed to be significantly different from the claimed invention of the present application.

20

JP 2000-123750A discloses a plasma display panel. As shown in Fig. 3 of JP 2000-123750A, the plasma display panel comprises a plurality of ribs 40 formed on a back substrate. The ribs 40 are parallel to each other and 25 perpendicular to the first auxiliary electrode 70. The plasma display panel further comprises a first sustaining electrode 61 and a second sustaining electrode 62. The first auxiliary electrode 70 is positioned in a first gap between the first sustaining 30 electrode 61 and the second sustaining electrode 62. However, the first auxiliary electrode 70 is not electrically connected to the first sustaining

electrode 61. The first auxiliary electrode 70 does not comprise a second part located above the first sustaining electrode 61, either. Therefore, the claimed invention of the present application is significantly  
5 different from the teachings in JP 2000-123750A.

US 6,031,329 is one the prior arts cited in Office action dated 04/15/2003 and has been considered by the Examiner.

10

Present application claim 1 (which was amended in response to Office action dated 04/15/2003):

1. (amended) An electrode structure of a plasma display  
15 panel (PDP), the electrode structure formed on a front substrate of the PDP, and comprising:

a first sustaining electrode and a second sustaining electrode set on the surface of the front substrate, and a first gap existing between the first and second  
20 sustaining electrodes; and

a first auxiliary electrode electrically connected to the first sustaining electrode, the first auxiliary electrode comprising a first part and a second part in contact with the first part, the first part formed  
25 in the first gap, and the second part located above the first sustaining electrode;

wherein a second gap existing between the first part of the first auxiliary electrode and the second sustaining electrode is used as a discharge gap of the  
30 electrode structure of the PDP, and the width of the second gap is smaller than the width of the first gap.

Respectfully Submitted,

5      Winston Hsu      Date: 4/18/2023  
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U.S.A.  
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PTO/SB/21 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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## TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

|  |                      |                        |             |
|--|----------------------|------------------------|-------------|
|  | Application Number   | 09/851,576             |             |
|  | Filing Date          | 05/10/2001             |             |
|  | First Named Inventor | Yao-Ching Su           |             |
|  | Group Art Unit       | 2875                   |             |
|  | Examiner Name        | MACCHIAROLO, PETER J.  |             |
| Total Number of Pages in This Submission | 21                   | Attorney Docket Number | ADTP0033USA |

### ENCLOSURES (check all that apply)

|  |   |  |
|--|---|--|
| <input checked="" type="checkbox"/> Fee Transmittal Form                     | <input type="checkbox"/> Assignment Papers (for an Application)                         | <input type="checkbox"/> After Allowance Communication to Group                            |
| <input type="checkbox"/> Fee Attached  | <input type="checkbox"/> Drawing(s)   | <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences        |
| <input type="checkbox"/> Amendment / Reply                                   | <input type="checkbox"/> Licensing-related Papers                                       | <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) |
| <input type="checkbox"/> After Final   | <input type="checkbox"/> Petition   | <input type="checkbox"/> Proprietary Information   |
| <input type="checkbox"/> Affidavits/declaration(s)                           | <input type="checkbox"/> Petition to Convert to a Provisional Application               | <input type="checkbox"/> Status Letter   |
| <input type="checkbox"/> Extension of Time Request                           | <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address | <input type="checkbox"/> Other Enclosure(s) (please identify below):                       |
| <input type="checkbox"/> Express Abandonment Request                         | <input type="checkbox"/> Terminal Disclaimer  |  |
| <input checked="" type="checkbox"/> Information Disclosure Statement         | <input type="checkbox"/> Request for Refund   |  |
| <input type="checkbox"/> Certified Copy of Priority Document(s)              | <input type="checkbox"/> CD, Number of CD(s) _____                                      |  |
| <input type="checkbox"/> Response to Missing Parts/ Incomplete Application   |   |  |
| <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53 |   |  |
| Remarks  |   |  |

### SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

|                         |                               |
|-------------------------|-------------------------------|
| Firm or Individual name | Winston Hsu, Reg. No.: 41,526 |
| Signature               |                               |
| Date                    | 4/18/2003                     |

### CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231 on this date:

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| Signature             |  | Date |

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